

EO data and compound risk

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> flood monitoring

at the affects of global flooding and cascading hazards

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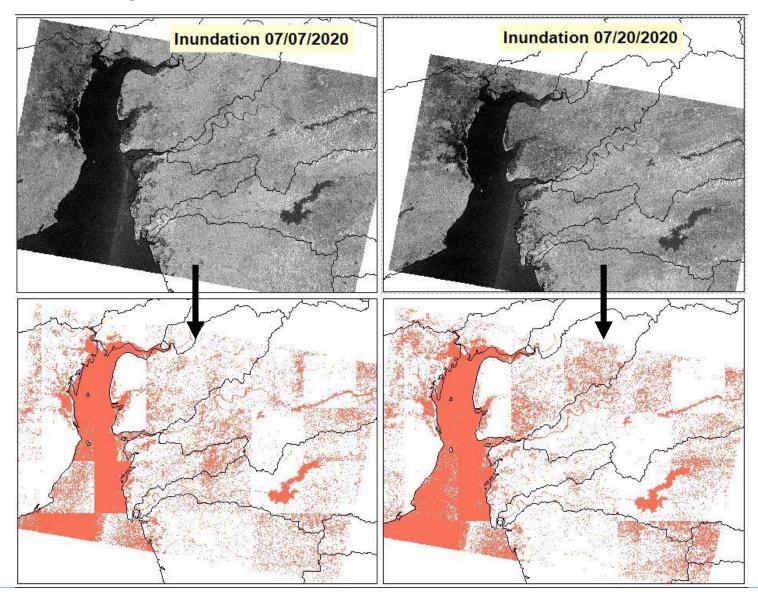


Sentinel 1A Output for Vadodara, India



Preprocessed and resampled to common grid GRDH Products

Final Binary product that shows detected water







Classify flood severity and send alerts based on severity level similar to USGS PAGER (used for severity alerting for earthquakes) using Pacific Disaster Center's (PDC) DisasterAWARE® platform.

Integrate two globally operationally flood models - GloFAS (Global Flood Awareness System) and GFMS (Global Flood Monitoring System)

Validate and calibrate the model outputs using remote sensing (Synthetic Aperture Radar) derived flood outputs. Provide situational awareness information to impacted communities in near real-time to for response and recovery efforts.

Purpose: Develop and deploy a Model of Models (MoM) approach integrating hydrodynamic models and remote sensing derived products for flood forecasting.



Project Objectives